



PTO/SB/08A (08-03)

Approved for use through 07/31/2006 OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 9

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number - Kind Code ² (if known)				
		US-	2002/0008211 A1	01/24/02	Kask	
		US-	6,137,584	06/04/98	Seider	
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				
		US-				

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. 1	Foreign Patent Document	Publication Date MM-DD-YYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ -Number ⁴ -Kind Code ⁵ <i>(if known)</i>				
		WO 98/57150	12/17/98			
		WO 99/21063	04/29/99			
			</			

Examiner
Signature

/Abdullahi Nur/

Date
Considered

02/28/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Sheet 2 of 9

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	1	Walhout, A.J.M. and M. Vidal, <i>Protein interaction maps for model organisms</i> . Nat. Rev. Mol. Cell. Biol., 2001. 2(1): p. 55-62.	
	2	Mendelsohn, A.R. and R. Brent, <i>Protein biochemistry - Protein interaction methods - Toward an endgame</i> . Science, 1999. 284(5422): p. 1948-1950.	
	3	Yanagida, M., <i>Functional proteomics; current achievements</i> . J. Chromatogr. B Analyt. Technol. Biomed. Life Sci., 2002. 771(1-2): p. 89-106.	
	4	Chalmers, M.J. and S.J. Gaskell, <i>Advances in mass spectrometry for proteome analysis</i> . Curr. Opin. Biotechnol., 2000. V11(N4): p. 384-390.	
	5	De Angelis, D.A., <i>Why FRET over genomics?</i> Physiol. Genomics, 1999. 1(2): p. 93-99.	
	6	Rigler, R. and E. Elson, <i>Fluorescence correlation spectroscopy: theory and applications</i> . 2001, Berlin ; New York: Springer. xx, 487	
	7	Schwille, P., <i>Fluorescence Correlation Spectroscopy and Its Potential for Intracellular Applications</i> . Cell Biochemistry and Biophysics, 2001. 34: p. 383-408.	
	8	Rarbach, M., et al., <i>Dual-color fluorescence cross-correlation spectroscopy for monitoring the kinetics of enzyme-catalyzed reactions</i> . Methods, 2001. 24(2): p. 104-116.	
	9	Keller, R.A., et al., <i>Single Molecule Fluorescence Analysis in Solution</i> . Appl. Spectrosc., 1996. 50(7): p. A12-A32.	
	10	Fries, J.R., et al., <i>Quantitative identification of different single molecules by selective time-resolved confocal fluorescence spectroscopy</i> . J. Phys. Chem. A., 1998. 102(33): p. 6601-6613.	
	11	Dahan, M., et al., <i>Ratiometric measurement and identification of single diffusing molecules</i> . Chem. Phys. (Netherlands), 1999. 247(1): p. 85-106.	

Examiner Signature	/Abdullahi Nur/	Date Considered	02/28/2008
-----------------------	-----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

Sheet 3 of 9

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	12	Deniz, A.A., et al., <i>Single-pair fluorescence resonance energy transfer on freely diffusing molecules: observation of Förster distance dependence and subpopulations</i> . Proc. Natl. Acad. Sci. U.S.A., 1999. 96(7): p. 3670-5.	
	13	Elson, E.L. and D. Magde, <i>Fluorescence correlation spectroscopy. I. Conceptual Basis and Theory</i> . Biopolymers, 1974. 13(1): p. 1-27.	
	14	Ehrenberg, M. and R. Rigler, <i>Rotational Brownian motion and fluorescence intensity fluctuations</i> . Chem. Phys. (Netherlands), 1974. 4(3): p. 390-401.	
	15	Widengren, J., U. Mets, and R. Rigler, <i>Fluorescence Correlation Spectroscopy of Triplet States in Solution - a Theoretical and Experimental Study</i> . J. Phys. Chem., 1995. 99(36): p. 13368-13379.	
	16	Widengren, J. and R. Rigler, <i>Mechanisms of photobleaching investigated by fluorescence correlation spectroscopy</i> . Bioimaging, 1996. 4(3): p. 149-57.	
	17	Magde, D., E. Elson, and W.W. Webb, <i>Thermodynamic fluctuations in a reacting system: measurement by fluorescence correlation spectroscopy</i> . Phys. Rev. Lett., 1972. 29(11): p. 705-8.	
	18	Magde, D., E.L. Elson, and W.W. Webb, <i>Fluorescence correlation spectroscopy. II. An experimental realization</i> . Biopolymers, 1974. 13(1): p. 29-61.	
	19	Doi, M. and S.F. Edwards, <i>The theory of polymer dynamics</i> . 1988, Oxford Oxfordshire, New York: Clarendon Press, Oxford University Press. xiii, 391.	
	20	Qian, H. and E.L. Elson, <i>On the analysis of high order moments of fluorescence fluctuations</i> . Biophys. J., 1990. 57(2): p. 375-80.	
	21	Qian, H. and E.L. Elson, <i>Distribution of molecular aggregation by analysis of fluctuation moments</i> . Proc. Natl. Acad. Sci. U.S.A., 1990. 87(14): p. 5479-83.	
	22	Palmer, A.G., III and N.L. Thompson, <i>Optical spatial intensity profiles for high order autocorrelation in fluorescence spectroscopy</i> . Appl. Opt., 1989. 28(6): p. 1214-20.	

Examiner Signature	/Abdullahi Nur/	Date Considered	02/28/2008
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.3. If possible, Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

Sheet 4 of 9

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	23	Chen, Y., et al., <i>The photon counting histogram in fluorescence fluctuation spectroscopy</i> . Biophys. J., 1999. 77(1): p. 553-67.	
	24	Kask, P., et al., <i>Fluorescence-intensity distribution analysis and its application in biomolecular detection technology</i> . Proc. Natl. Acad. Sci. U.S.A., 1999. 96(24): p. 13756-61.	
	25	Muller, J.D., Y. Chen, and E. Gratton, <i>Resolving heterogeneity on the single molecular level with the photon-counting histogram</i> . Biophys. J., 2000. 78(1): p. 474-486.	
	26	Chen, Y., et al., <i>Probing ligand protein binding equilibria with fluorescence fluctuation spectroscopy</i> . Biophys. J., 2000. 79(2): p. 1074-1084.	
	27	Margeat, E., et al., <i>The human estrogen receptor alpha dimer binds a single SRC-1 coactivator molecule with an affinity dictated by agonist structure</i> . J. Mol. Biol., 2001. 306(3): p. 433-42.	
	28	Van Rompaey, E., et al., <i>Fluorescence fluctuation analysis for the study of interactions between oligonucleotides and polycationic polymers</i> . Biol. Chem., 2001. 382(3): p. 379-86.	
	29	Scheel, A.A., et al., <i>Receptor-ligand interactions studied with homogeneous fluorescence-based assays suitable for miniaturized screening</i> . J. Biomol. Screen., 2001. 6(1): p. 11-18.	
	30	Rudiger, M., et al., <i>Single-molecule detection technologies in miniaturized high throughput screening: Binding assays for G protein-coupled receptors using fluorescence intensity distribution analysis and fluorescence anisotropy</i> . Journal of Biomolecular Screening, 2001. V6(N1): p. 29-37.	
	31	Chen, Y., et al., <i>Molecular brightness characterization of EGFP in vivo by fluorescence fluctuation spectroscopy</i> . Biophys. J., 2002. 82(1): p. 133-144.	
	32	Palo, K., et al., <i>Fluorescence intensity multiple distributions analysis: concurrent determination of diffusion times and molecular brightness</i> . Biophys. J., 2000. 79(6): p. 2858-66.	
	33	Schwille, P., F.J. Meyer-Almes, and R. Rigler, <i>Dual-color fluorescence cross-correlation spectroscopy for multicomponent diffusional analysis in solution [see comments]</i> . Biophys. J., 1997. 72(4): p. 1878-86.	

Examiner Signature	/Abdullahi Nur/	Date Considered	02/28/2008
-----------------------	-----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

Sheet 5 of 9

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	34	Heinze, K.G., A. Koltermann, and P. Schwille, <i>Simultaneous two-photon excitation of distinct labels for dual-color fluorescence crosscorrelation analysis</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(19): p. 10377-82.	
	35	Schwille, P. and K.G. Heinze, <i>Two-photon fluorescence cross-correlation spectroscopy</i> . Chemphyschem, 2001. 2(5): p. 269-272.	
	36	Deniz, A.A., et al., <i>Ratiometric single-molecule studies of freely diffusing biomolecules</i> . Annu. Rev. Phys. Chem., 2001. 52: p. 233-253.	
	37	Tellinghuisen, J., et al., <i>Analysis of Fluorescence Lifetime Data for Single Rhodamine Molecules in Flowing Sample Streams</i> . Anal. Chem., 1994. 66(1): p. 64-72.	
	38	Eggeling, C., et al., <i>Monitoring conformational dynamics of a single molecule by selective fluorescence spectroscopy</i> . Proc. Natl. Acad. Sci. U.S.A., 1998. 95(4): p. 1556-61.	
	39	Kask, P., et al., <i>Two-dimensional fluorescence intensity distribution analysis: theory and applications</i> . Biophys. J., 2000. 78(4): p. 1703-13.	
	40	Reynaud, S., <i>Resonance fluorescence: the dressed atom approach</i> . Ann. Phys., 1983. 8(4): p. 315-70.	
	41	Edman, L. and R. Rigler, <i>Memory landscapes of single-enzyme molecules</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(15): p. 8266-71.	
	42	Schatzel, K., <i>New concepts in correlator design</i> . Inst. Phys. Conf. Ser. No. 77: session 4, 1985. No. 77: session 4: p. 175-185.	
	43	Schatzel, K. and R. Peters, <i>Noise on Multiple-Tau Photon Correlation Data</i> . SPIE vol. 1430 Photon Correlation Spectroscopy: Multicomponent Systems, 1991. 1430: p. 109-115.	
	44	Press, W.H., S. A. Teukolsky, W. T. Vetterling, and B. P. Flannery, <i>Numerical recipes in C: the art of scientific computing</i> . 2nd ed. 1992, Cambridge, U.K.: Cambridge University Press. xxvi, 994.	

Examiner Signature	/Abdullahi Nur/	Date Considered	02/28/2008
-----------------------	-----------------	--------------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Sheet 6 of 9

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	45	Rigler, R., et al., <i>Fluorescence Correlation Spectroscopy With High Count Rate and Low Background - Analysis of Translational Diffusion</i> . Eur. Biophys. J., 1993. 22(3): p. 169-175.	
	46	Mets, U., <i>Antibunching and Rotational Diffusion in FCS</i> , in <i>Fluorescence Correlation Spectroscopy</i> , R. Rigler, and E.S. Elson, Editor. 2001, Springer. p. 346-359.	
	47	Creighton, T.E., <i>Proteins : structures and molecular principles</i> . 1983, New York: W.H. Freeman. xi, pp. 338-340, 344-346.	
	48	Enderlein, J., David L. Robbins, W. Patrick Ambrose, Peter M. Goodwin, and Richard A. Keller, <i>Statistics of Single-Molecule Detection</i> . J. Phys. Chem. B, 1997. 101: p. 3626-3632.	
	49	Maiti, S., U. Haupts, and W.W. Webb, <i>Fluorescence correlation spectroscopy: diagnostics for sparse molecules</i> . Proc. Natl. Acad. Sci. U.S.A., 1997. 94(22): p. 11753-7.	
	50	Kubo, R.o., M. Toda, and N. Hashitsume, <i>Statistical physics II : nonequilibrium statistical mechanics</i> . 2nd ed. Springer series in solid-state sciences ; 31. 1991, Berlin ; New York: Springer. 279.	
	51	Enderlein, J., <i>Path Integral Approach to Fluorescence Correlation Experiments</i> . Phys. Lett. A, 1996. 221(6): p. 427-433.	
	52	Gardiner, C.W., <i>Handbook of stochastic methods for physics, chemistry, and the natural sciences</i> . 2nd ed. 1985, Berlin ; New York: Springer-Verlag. xix, 442.	
	53	Mandel, L., <i>Fluctuations of Photon Beams and their Correlation</i> . Proc. Phys. Soc., 1958. 72: p. 1037-1048.	
	54	Mandel, L., <i>Fluctuations of Photon Beams: The Distribution of the Photo-Electrons</i> . Proc. Phys. Soc., 1959. 74(3): p. 233-243.	
	55	Sambrook, J. and D.W. Russell, <i>Molecular cloning : a laboratory manual</i> . 3rd ed. 2001, Cold Spring Harbor, N.Y.: Cold Spring Harbor Laboratory Press. 3 v.	

Examiner
Signature

/Abdullahi Nur/

Date
Considered

02/28/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Substitute for form 1449A/PTO

Complete if Known

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet

7

of

9

Application Number

10/521,632

Filing Date

Jan. 20, 2005

First Named Inventor

Laurence, et al.

Art Unit

n/a

Examiner Name

n/a

Attorney Docket Number

0180.0043

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	56	Mukhopadhyay, J., et al., <i>Translocation of sigma(70) with RNA polymerase during transcription: fluorescence resonance energy transfer assay for movement relative to DNA</i> . Cell, 2001. 106(4): p. 453-63.	
	57	Murakami, K.S., et al., <i>Structural basis of transcription initiation: an RNA polymerase holoenzyme-DNA complex</i> . Science, 2002. 296(5571): p. 1285-90.	
	58	Wohland, T., R. Rigler, and H. Vogel, <i>The standard deviation in fluorescence correlation spectroscopy</i> . Biophys. J., 2001. 80(6): p. 2987-99.	
	59	Wohland, T., R. Rigler, and H. Vogel, <i>The standard deviation in fluorescence correlation spectroscopy</i> . Biophys. J., 2001. 80(6): p. 2987-99.	
	60	Richards, B. and E. Wolf, <i>Electromagnetic diffraction in optical systems. II. Structure of the image field in an aplanatic system</i> . Proc. Phys. Soc. A, 1959. 253: p. 358-379.	
	61	Wolf, E., <i>Electromagnetic diffraction in optical systems. I. An integral representation of the image field</i> . Proc. Phys. Soc. A, 1959. 253: p. 349-357.	
	62	Cantor, C.R. and P.R. Schimmel, <i>Biophysical chemistry</i> . 1980, San Francisco: W. H. Freeman. v. <1>.	
	63	Lide, D.R., <i>CRC handbook of chemistry and physics</i> . 3rd electronic ed ed. 2001, Boca Raton, FL: CRC Press.	
	64	Efron, B. and R. Tibshirani, <i>An introduction to the bootstrap</i> . Monographs on statistics and applied probability ; 57. 1993, New York: Chapman & Hall. xvi, 436.	
	65	Eigen, M. and R. Rigler, <i>Sorting Single Molecules - Application to Diagnostics and Evolutionary Biotechnology</i> . Proc. Natl. Acad. Sci. U.S.A., 1994. 91(13): p. 5740-5747.	
	66	Laurence, T.A., <i>Photon-counting single-molecule spectroscopy for studying conformational dynamics and macromolecular interactions</i> , in <i>Physics</i> . 2002, University of California: Berkeley, CA. p. 182.	

Examiner
Signature

/Abdullahi Nur/

Date

Considered

02/28/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Complete if Known

Application Number	10/521,632
Filing Date	Jan. 20, 2005
First Named Inventor	Laurence, et al.
Art Unit	n/a
Examiner Name	n/a
Attorney Docket Number	0180.0043

Sheet 8 of 9

OTHER PRIOR ART -- NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T ²
	67	Widengren, J. and P. Schwill, <i>Characterization of photoinduced isomerization and back-isomerization of the cyanine dye Cy5 by fluorescence correlation spectroscopy</i> . J. Phys. Chem. A., 2000. 104(27): p. 6416-6428.	
	68	Hess, S.T. and W.W. Webb, <i>Focal volume optics and experimental artifacts in confocal fluorescence correlation spectroscopy</i> . Biophys. J., 2002. 83(4): p. 2300-17.	
	69	Deniz, A.A., et al., <i>Single-molecule protein folding: diffusion fluorescence resonance energy transfer studies of the denaturation of chymotrypsin inhibitor 2</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(10): p. 5179-84.	
	70	Dittrich, P.S. and P. Schwill, <i>Photobleaching and stabilization of fluorophores used for single-molecule analysis with one- and two-photon excitation</i> . Applied Physics B-Lasers and Optics, 2001. 73(8): p. 829-837.	
	71	Hebert, T.E. and M. Bouvier, <i>Structural and functional aspects of G protein-coupled receptor oligomerization</i> . Biochem. Cell. Biol., 1998. 76(1): p. 1-11.	
	72	Hebert, T.E. and M. Bouvier, <i>Structural and functional aspects of G protein-coupled receptor oligomerization</i> . Biochem. Cell. Biol., 1998. 76(1): p. 1-11.	
	73	Bieschke, J., et al., <i>Ultrasensitive detection of pathological prion protein aggregates by dual-color scanning for intensely fluorescent targets</i> . Proc. Natl. Acad. Sci. U.S.A., 2000. 97(10): p. 5468-73.	
	74	Cohen, F.E., <i>Protein misfolding and prion diseases</i> . J. Mol. Biol., 1999. 293(2): p. 313-20.	
	75	Prusiner, S.B., <i>Prions</i> . Proc. Natl. Acad. Sci. U.S.A., 1998. 95(23): p. 13363-83.	
	76	Tjernberg, L.O., et al., <i>Amyloid beta-peptide polymerization studied using fluorescence correlation spectroscopy</i> . Chem. Biol., 1999. 6(1): p. 53-62.	
	77	Pitschke, M., et al., <i>Detection of single amyloid beta-protein aggregates in the cerebrospinal fluid of Alzheimer's patients by fluorescence correlation spectroscopy</i> . Nat. Med., 1998. 4(7): p. 832-4.	

Examiner Signature	/Abdullahi Nur/	Date Considered	02/28/2008
--------------------	-----------------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/

Applicant's unique citation designation number (optional). ² See Kinds of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /AN/